Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:ssptakxm1743

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	NOV 21	CAS patent coverage to include exemplified prophetic substances identified in English-, French-, German-, and Japanese-language basic patents from 2004-present
NEWS 3	NOV 26	MARPAT enhanced with FSORT command
NEWS 4	NOV 26	CHEMSAFE now available on STN Easy
NEWS 5	NOV 26	Two new SET commands increase convenience of STN searching
NEWS 6	DEC 01	ChemPort single article sales feature unavailable
NEWS 7	DEC 12	GBFULL now offers single source for full-text coverage of complete UK patent families
NEWS 8	DEC 17	Fifty-one pharmaceutical ingredients added to PS
NEWS 9	JAN 06	The retention policy for unread STNmail messages will change in 2009 for STN-Columbus and STN-Tokyo
NEWS 10	JAN 07	WPIDS, WPINDEX, and WPIX enhanced Japanese Patent Classification Data
NEWS 11	FEB 02	Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS 12	FEB 02	GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS 13	FEB 06	Patent sequence location (PSL) data added to USGENE
NEWS 14	FEB 10	COMPENDEX reloaded and enhanced
NEWS 15	FEB 11	WTEXTILES reloaded and enhanced
NEWS 16	FEB 19	New patent-examiner citations in 300,000 CA/CAplus patent records provide insights into related prior art
NEWS 17	FEB 19	Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS 18	FEB 23	Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS 19	FEB 23	MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS 20	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS 21	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
specific topic.

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:28:15 ON 23 FEB 2009

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.10	1.10

FILE 'REGISTRY' ENTERED AT 17:30:53 ON 23 FEB 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 22 FEB 2009 HIGHEST RN 1110296-20-2
DICTIONARY FILE UPDATES: 22 FEB 2009 HIGHEST RN 1110296-20-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

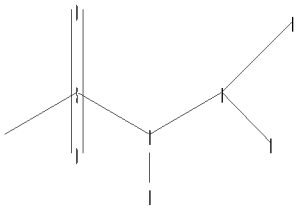
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

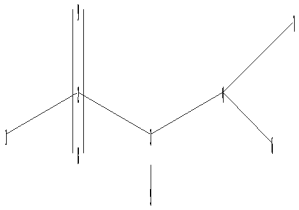
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\STNEXP\Queries\10511409.str





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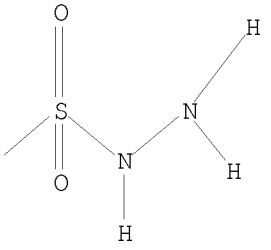
1 2 3 4 5 6 7 8 9
chain bonds :
1-2 2-3 2-8 2-9 3-4 3-5 4-6 4-7
exact/norm bonds :
1-2 2-3 2-8 2-9 3-4
exact bonds :
3-5 4-6 4-7

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

L1   STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1   STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam
SAMPLE SEARCH INITIATED 17:36:22 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   2788 TO ITERATE

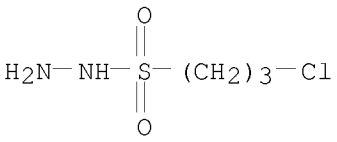
 71.7% PROCESSED   2000 ITERATIONS   4 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 52593 TO   58927
PROJECTED ANSWERS: 4 TO   252

L2   4 SEA SSS SAM L1

=> d scan

L2   4 ANSWERS   REGISTRY COPYRIGHT 2009 ACS on STN
IN   1-Propanesulfonic acid, 3-chloro-, hydrazide
MF   C3 H9 Cl N2 O2 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l1 sss full
FULL SEARCH INITIATED 17:37:28 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 53066 TO ITERATE

100.0% PROCESSED 53066 ITERATIONS 87 ANSWERS
SEARCH TIME: 00.00.01

L3 87 SEA SSS FUL L1

=> s l3 and derivatization
0 DERIVATIZATION
L4 0 L3 AND DERIVATIZATION

=> s l3 and ketosteroid
72 KETOSTEROID
L5 0 L3 AND KETOSTEROID

=> s l3 and estrogen
1842 ESTROGEN
L6 0 L3 AND ESTROGEN

=> s l3/arg
'ARG' IS NOT A VALID CROSSOVER QUALIFIER FOR L3
Answer sets created in a different file may be field qualified with a limited set of qualifiers. Enter HELP CROSSOVER at an arrow prompt (=>) for specific information.

=> s l3/arg
'ARG' IS NOT A VALID CROSSOVER QUALIFIER FOR L3
Answer sets created in a different file may be field qualified with a limited set of qualifiers. Enter HELP CROSSOVER at an arrow prompt (=>) for specific information.

=> s L3/arg
'ARG' IS NOT A VALID CROSSOVER QUALIFIER FOR L3
Answer sets created in a different file may be field qualified with a limited set of qualifiers. Enter HELP CROSSOVER at an arrow prompt (=>) for specific information.

=> s l3/ANST
'ANST' IS NOT A VALID CROSSOVER QUALIFIER FOR L3
Answer sets created in a different file may be field qualified with a limited set of qualifiers. Enter HELP CROSSOVER at an arrow prompt (=>) for specific information.

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 209.13 210.23

FILE 'CAPLUS' ENTERED AT 17:40:45 ON 23 FEB 2009
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strictly prohibited.

FILE COVERS 1907 - 23 Feb 2009 VOL 150 ISS 9
FILE LAST UPDATED: 22 Feb 2009 (20090222/ED)

Caplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

```
=> s l3 and derivatization
          141 L3
        27938 DERIVATIZATION
L7          0 L3 AND DERIVATIZATION

=> s l3 and estrogen
          141 L3
        90884 ESTROGEN
L8          0 L3 AND ESTROGEN

=> s l3 and ketosteroid
          141 L3
         1496 KETOSTEROID
L9          0 L3 AND KETOSTEROID

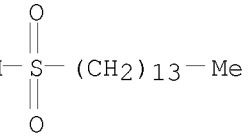
=> s l3/arg
          141 L3
       206526 ARG/RL
L10         0 L3/ARG
                (L3 (L) ARG/RL)

=> s l3/anst
          141 L3
      1253464 ANST/RL
L11         0 L3/ANST
                (L3 (L) ANST/RL)

=> d scan l3
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y



L3   87 ANSWERS   REGISTRY  COPYRIGHT 2009 ACS on STN
IN   1-Tetradecanesulfonic acid, hydrazide
MF   C14 H32 N2 O2 S
```



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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
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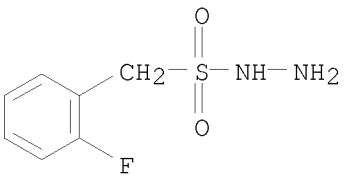
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 87 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Benzenemethanesulfonic acid, 2-fluoro-, hydrazide
MF C7 H9 F N2 O2 S
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 87 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
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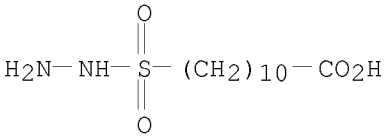
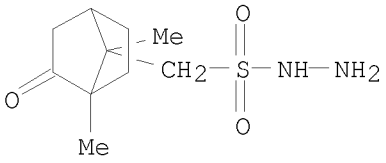
MF C11 H24 N2 O4 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

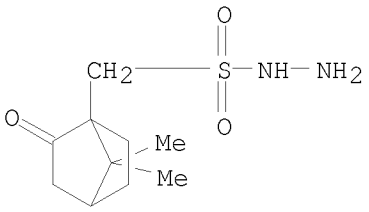
L3 87 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Bicyclo[2.2.1]heptane-7-methanesulfonic acid, 1,7-dimethyl-2-oxo-,
    hydrazide, anti- (9CI)
MF C10 H18 N2 O3 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

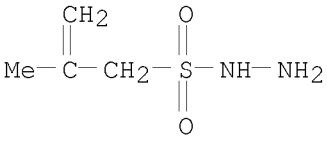
L3 87 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Bicyclo[2.2.1]heptane-1-methanesulfonic acid, 7,7-dimethyl-2-oxo-, hydrazide, (1S)- (9CI)
MF C10 H18 N2 O3 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

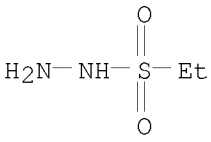
L3 87 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 2-Propene-1-sulfonic acid, 2-methyl-, hydrazide
MF C4 H10 N2 O2 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 87 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN Ethanesulfonic acid, hydrazide
MF C2 H8 N2 O2 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION

FULL ESTIMATED COST 0.50 225.87

FILE 'CAPLUS' ENTERED AT 17:45:43 ON 23 FEB 2009
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FILE COVERS 1907 - 23 Feb 2009 VOL 150 ISS 9
FILE LAST UPDATED: 22 Feb 2009 (20090222/ED)

Caplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

```
=> s l3 and derivatize
           141 L3
           512 DERIVATIZE
L12          0 L3 AND DERIVATIZE

=> s l3 and derivatization
           141 L3
         27938 DERIVATIZATION
L13          0 L3 AND DERIVATIZATION

=> s l3 and carbonyl
           141 L3
        186588 CARBONYL
L14         12 L3 AND CARBONYL

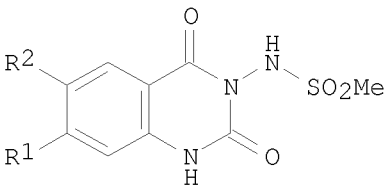
=> d ibib abs hitstr 1-
YOU HAVE REQUESTED DATA FROM 12 ANSWERS - CONTINUE? Y/(N):y

L14  ANSWER 1 OF 12  CAPLUS  COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:        2006:1093812  CAPLUS
DOCUMENT NUMBER:         145:419171
TITLE:                   Preparation of 1H-quinazoline-2,4-diones as
                         AMPA-receptor ligands
INVENTOR(S):             Allgeier, Hans; Auberson, Yves; Carcache, David;
                         Floersheim, Philipp; Guibourdenche, Christel; Froestl,
                         Wolfgang; Kallen, Joerg; Koller, Manuel; Mattes,
                         Henri; Nozulak, Joachim; Orain, David; Renaud, Johanne
PATENT ASSIGNEE(S):      Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.
SOURCE:                  PCT Int. Appl., 157pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:           Patent
```

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006108591	A1	20061019	WO 2006-EP3251	20060410
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2006233639	A1	20061019	AU 2006-233639	20060410
CA 2601986	A1	20061019	CA 2006-2601986	20060410
EP 1871749	A1	20080102	EP 2006-724185	20060410
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, HR				
JP 2008536839	T	20080911	JP 2008-505790	20060410
IN 2007DN06940	A	20070928	IN 2007-DN6940	20070907
US 20080153836	A1	20080626	US 2007-911040	20071009
MX 200712592	A	20071116	MX 2007-12592	20071010
KR 2007110919	A	20071120	KR 2007-723171	20071010
CN 101155789	A	20080402	CN 2006-80011666	20071011
NO 2007005749	A	20080111	NO 2007-5749	20071109
PRIORITY APPLN. INFO.:			GB 2005-7298 A	20050411
			WO 2006-EP3251 W	20060410

OTHER SOURCE(S): MARPAT 145:419171
GI



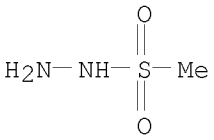
I

AB Title compds. represented by the formula I [wherein R1 = CF3, CHF2, CH2F, etc.; R2 = (un)substituted (heterocyclyl)alkyl, heterocyclyl or phenyl; and their salts thereof] were prepared as AMPA-receptor ligands. For example, I (R1 = CF3, R2 = MeCO) was provided in a multi-step synthesis starting from 2-nitro-4-trifluoromethylbenzoic acid. I [R1 = CF3, R2 = EtOCH(Me)] showed AMPA-receptor binding activity with IC50 value of 1 μM. Thus, title compds. and their pharmaceutical compns. are useful as AMPA-receptor ligands, in particular for the treatment of epilepsy or schizophrenia (no data).

IT 10393-86-9, Methanesulfonyl hydrazide
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of 1H-quinazoline-2,4-diones as AMPA-receptor ligands)

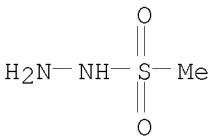
RN 10393-86-9 CAPLUS

CN Methanesulfonic acid, hydrazide (CA INDEX NAME)

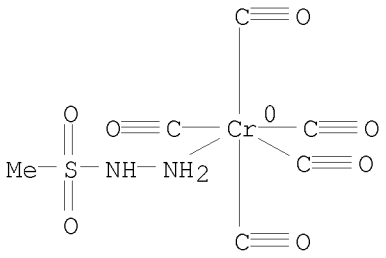


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

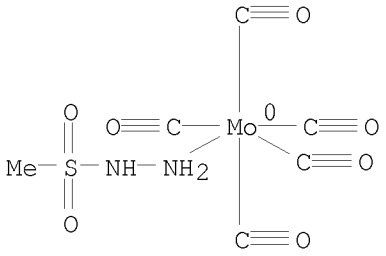
L14 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:474653 CAPLUS
DOCUMENT NUMBER: 141:431312
TITLE: Synthesis and Characterization of Metal Carbonyl Complexes of M(CO)6 (M = Cr, Mo, and W), Re(CO)5Br, and Mn(CO)3Cp with Acetone methanesulfonylhydrazone (amsh) and Methanesulfonylhydrazine (msh)
AUTHOR(S): Oezdemir, Uemmuehan; Karacan, Nurcan; Sentuerk, Ozan Sanli; Sert, Sema; Ugur, Fadime
CORPORATE SOURCE: Department of Chemistry, Faculty of Science and Literature, Gazi University, Ankara, Turk.
SOURCE: Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry (2004), 34(6), 1057-1067
CODEN: SRIMCN; ISSN: 0094-5714
PUBLISHER: Marcel Dekker, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:431312
AB Ten new complexes, [M(CO)5(amsh)] [M = Cr (1a), Mo (2a), W (3a)], [Re(CO)4Br(amsh)] (4a), and [Mn(CO)2(amsh)Cp] (5a) and [M(CO)5(msh)] [M = Cr (1b), Mo (2b), W (3b)], [Re(CO)4Br(msh)] (4b), and [Mn(CO)3(msh)] (5b), were synthesized by the photochem. reaction of the metal carbonyls [M(CO)6] (M = Cr, Mo, and W), [Re(CO)5Br], and [Mn(CO)3Cp] with acetone methanesulfonylhydrazone (amsh) and methanesulfonylhydrazine (msh). The complexes were characterized by elemental analyses, mass spectrometry, FTIR and 1H NMR spectroscopy. The spectroscopic studies show that amsh and msh behave as a monodentate ligands coordinating via an imine N donor atom in (1a)-(5a) and a hydrazine N donor atom in (1b)-(5b).
IT 10393-86-9, Methanesulfonylhydrazine
RL: RCT (Reactant); RACT (Reactant or reagent)
(photochem. substitution of transition metal carbonyls)
RN 10393-86-9 CAPLUS
CN Methanesulfonic acid, hydrazide (CA INDEX NAME)



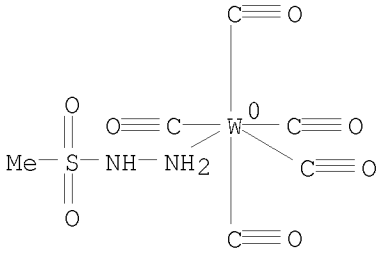
IT 796043-52-2P 796043-53-3P 796043-54-4P
796043-55-5P 796043-56-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 796043-52-2 CAPLUS
CN Chromium, pentacarbonyl(methanesulfonic acid hydrazide-κN2)-, (OC-6-22)- (9CI) (CA INDEX NAME)



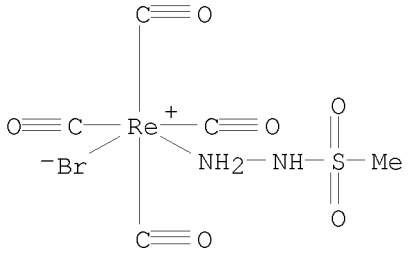
RN 796043-53-3 CAPLUS
CN Molybdenum, pentacarbonyl(methanesulfonic acid hydrazide-κN2)-, (OC-6-22)- (9CI) (CA INDEX NAME)



RN 796043-54-4 CAPLUS
CN Tungsten, pentacarbonyl(methanesulfonic acid hydrazide-κN2)-, (OC-6-22)- (9CI) (CA INDEX NAME)

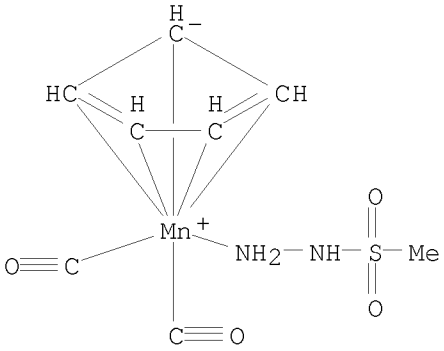


RN 796043-55-5 CAPLUS
CN Rhenium, bromotetracarbonyl(methanesulfonic acid hydrazide-κN2)- (9CI) (CA INDEX NAME)



RN 796043-56-6 CAPLUS
CN Manganese, dicarbonyl(η5-2,4-cyclopentadien-1-yl)(methanesulfonic acid

hydrazide-κN2)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

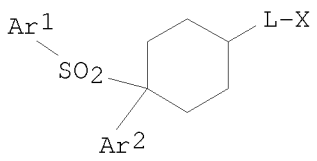
L14 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:308409 CAPLUS
DOCUMENT NUMBER: 140:321108
TITLE: Preparation of aryl cyclohexyl sulfones as γ-secretase inhibitors useful against Alzheimer's disease
INVENTOR(S): Churcher, Ian; Harrison, Timothy; Kerrad, Sonia; Oakley, Paul Joseph; Shaw, Duncan Edward; Teall, Martin Richard; Williams, Susannah
PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK
SOURCE: PCT Int. Appl., 78 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004031137	A1	20040415	WO 2003-GB4102	20030925
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2500964	A1	20040415	CA 2003-2500964	20030925
AU 2003267614	A1	20040423	AU 2003-267614	20030925
EP 1551797	A1	20050713	EP 2003-748306	20030925
EP 1551797	B1	20070221		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006501292	T	20060112	JP 2004-540927	20030925
AT 354562	T	20070315	AT 2003-748306	20030925
US 20040122050	A1	20040624	US 2003-679557	20031006
US 7101895	B2	20060905		

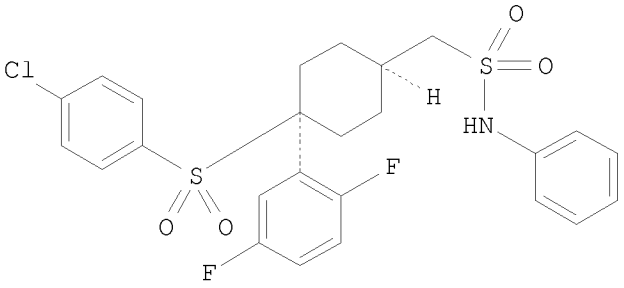
PRIORITY APPLN. INFO.: GB 2002-23039 A 20021004
WO 2003-GB4102 W 20030925

OTHER SOURCE(S): CASREACT 140:321108; MARPAT 140:321108

GI



I



II

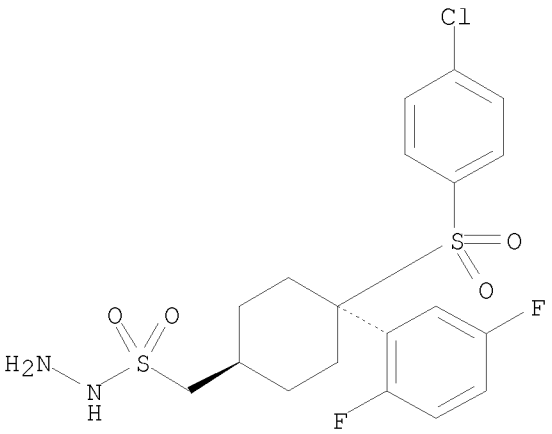
AB Aryl cyclohexyl sulfones (shown as I; variables defined below; e.g. II) inhibit the processing of APP by γ-secretase, and hence are useful in treatment of Alzheimer's disease. For I: X = SCN, SR1, S(O)R1, (CRaRb)mSO2R1, SO2N(R2)2, SO2NHCOR1, SO2NHN(R2)2, OSO2N(R2)2, OS(O)N(R2)2, OSO2NHCOR1, COR4, NHCOR1, NHCO2R1, NHCON(R2)2, NHSO2R1 or NHSO2N(R2)2; L = a bond, :CH- or -(CHRa)n- with provisos; n = 1-3; Ar1 and Ar2 = Ph or heteroaryl, either of which bears 0-3 halogen, CN, NO2, CF3, CHF2, OH, OCF3, CHO, CH:NOH, C1-4-alkoxy, C1-4-alkoxycarbonyl, C2-6-acyl, C2-6-alkenyl, and C1-4-alkyl; Ra = H, alkyl; Rb = H, alkyl, CO2H, alkoxycarbonyl, alkylsulfonyl; R1 = CF3, (substituted) alkyl, alkenyl, cycloalkyl, cycloalkylalkyl, aryl(alkyl), heterocyclyl(alkyl); R2 = H, (substituted) alkoxy, alkyl, alkenyl, cycloalkyl, cycloalkylalkyl; R3 = H, alkyl, Ph, heteroaryl; R4 = CRaRbSO2R1, pyridine N-oxide, substituted Ph, heteroaryl; addnl. details are given in the claims. Although the methods of preparation are not claimed, example prepns. and/or characterization data are included for <180 examples of I and some intermediates. For example, II was prepared from excess aniline and [cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]methanesulfonyl chloride, which was prepared from SO2Cl2, KNO3 and [cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]methanethiol, which was prepared from in 2 steps from iodo[cis-4-(4-chlorobenzenesulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]methane, which was prepared photochem. from [cis-4-(4-Chlorophenylsulfonyl)-4-(2,5-difluorophenyl)cyclohexyl]acetic acid, iodoisobenzene diacetate and I2. The examples all had an ED50 against γ-secretase of <1 μM, typically <0.5 μM, in most cases <100 nM, and in preferred cases <10 nM.

IT 679431-38-0P, cis-1-(4-Chlorophenylsulfonyl)-1-(2,5-difluorophenyl)-4-[[(hydrazinyl)sulfonyl]methyl]cyclohexane
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of aryl cyclohexyl sulfones as γ-secretase inhibitors useful against Alzheimer's disease)

RN 679431-38-0 CAPLUS

CN Cyclohexanemethanesulfonic acid, 4-[(4-chlorophenyl)sulfonyl]-4-(2,5-difluorophenyl)-, hydrazide, cis- (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2000:133658 CAPLUS
DOCUMENT NUMBER: 132:194391
TITLE: Preparation of sulfonyl moiety-containing heterocyclic compounds as factor Xa inhibitors
INVENTOR(S): Kobayashi, Syozo; Komoriya, Satoshi; Haginoya, Noriyasu; Suzuki, Masanori; Yoshino, Toshiharu; Nagahara, Takayasu; Nagata, Tsutomu; Horino, Haruhiko; Ito, Masayuki; Mochizuki, Akiyoshi
PATENT ASSIGNEE(S): Daiichi Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 883 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000009480	A1	20000224	WO 1999-JP4344	19990811
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
JP 2000119253	A	20000425	JP 1999-226878	19990810
CA 2340100	A1	20000224	CA 1999-2340100	19990811
AU 9951963	A	20000306	AU 1999-51963	19990811
EP 1104754	A1	20010606	EP 1999-937024	19990811
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2000143623	A	20000526	JP 1999-242814	19990830
US 6747023	B1	20040608	US 2001-762888	20010212
US 20040082611	A1	20040429	US 2003-681205	20031009

PRIORITY APPLN. INFO.:
JP 1998-227449 A 19980811
JP 1998-244175 A 19980828
JP 1998-251674 A 19980904

WO 1999-JP4344 W 19990811
US 2001-762888 A3 20010212

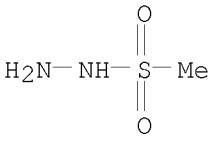
OTHER SOURCE(S): MARPAT 132:194391

AB The title compds. Q1Q2T1Q3SO2QA [wherein Q1 is an optionally substituted, saturated or unsatd., five- or six-membered cyclic hydrocarbon group, a five- or six-membered heterocyclic group, or the like; Q2 is a single bond, oxygen, sulfur, C1-C6 alkylene or the like; Q3 is a heterocyclic ring (represented by several generic structures); QA is optionally substituted arylalkenyl, heteroarylalkenyl or the like; and T1 is carbonyl or the like] are prepared These compds. have potent factor Xa inhibiting effects and promptly exert satisfactory and persistent antithrombotic effects through oral administration, thus being useful as anticoagulant agents little accompanied with side effects. Several compds. of this invention in vitro showed IC50 values of 0.7 nM to 4.7 nM against factor Xa.

IT 259810-19-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of sulfonyl moiety-containing heterocyclic compds. as factor Xa inhibitors)

RN 259810-19-0 CAPLUS

CN Methanesulfonic acid, hydrazide, hydrochloride (1:1) (CA INDEX NAME)



● HCl

REFERENCE COUNT: 67 THERE ARE 67 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1997:549377 CAPLUS

DOCUMENT NUMBER: 127:161997

ORIGINAL REFERENCE NO.: 127:31411a,31414a

TITLE: Carbamoyloxy derivatives of mutilin and their use as antibacterials

INVENTOR(S): Hinks, Jeremy David; Takle, Andrew Kenneth; Hunt, Eric

PATENT ASSIGNEE(S): Smithkline Beecham Plc, UK; Hinks, Jeremy David; Takle, Andrew Kenneth; Hunt, Eric

SOURCE: PCT Int. Appl., 164 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9725309	A1	19970717	WO 1996-EP5874	19961219
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,				

IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

CA	2240467	A1	19970717	CA 1996-2240467	19961219
AU	9713078	A	19970801	AU 1997-13078	19961219
AU	715229	B2	20000120		
EP	874809	A1	19981104	EP 1996-944684	19961219
EP	874809	B1	20030827		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO

CN	1214039	A	19990414	CN 1996-180177	19961219
BR	9612426	A	19990713	BR 1996-12426	19961219
HU	9900973	A2	19990830	HU 1999-973	19961219
HU	9900973	A3	20000428		
JP	2000503642	T	20000328	JP 1997-524826	19961219
JP	4163254	B2	20081008		
HU	2000001741	A2	20001028	HU 2000-1741	19961219
HU	2000001741	A3	20001128		
AT	248143	T	20030915	AT 1996-944684	19961219
ES	2205072	T3	20040501	ES 1996-944684	19961219
ZA	9700017	A	19980702	ZA 1997-17	19970102
IN	1997MA00014	A	20050304	IN 1997-MA14	19970103
AP	872	A	20000928	AP 1997-1047	19970721

W: BW, GM, GH, KE, LS, MW, SD, SZ, UG, ZM, ZW

CA	2262460	A1	19980212	CA 1997-2262460	19970729
WO	9805659	A1	19980212	WO 1997-EP4166	19970729

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW

RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

AU	9742036	A	19980225	AU 1997-42036	19970729
EP	934316	A1	19990811	EP 1997-940050	19970729
EP	934316	B1	20021016		

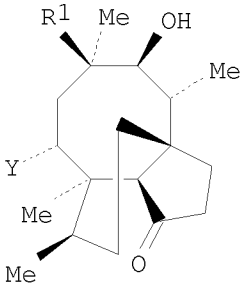
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI

BR	9711008	A	19990817	BR 1997-11008	19970729
CN	1231665	A	19991013	CN 1997-198347	19970729
NZ	333926	A	20000526	NZ 1997-333926	19970729
JP	2000515532	T	20001121	JP 1998-507584	19970729
JP	4204069	B2	20090107		
AT	226203	T	20021115	AT 1997-940050	19970729
ES	2182114	T3	20030301	ES 1997-940050	19970729
ZA	9706817	A	19990201	ZA 1997-6817	19970731
NO	9803074	A	19980831	NO 1998-3074	19980702
US	6020368	A	20000201	US 1998-101210	19981204
NO	9900463	A	19990201	NO 1999-463	19990201
KR	2000029748	A	20000525	KR 1999-700856	19990201
US	6239175	B1	20010529	US 1999-467695	19991221

PRIORITY APPLN. INFO.:	GB 1996-48	A	19960103
	GB 1996-16305	A	19960802
	WO 1996-EP5874	W	19961219
	GB 1997-12963	A	19970619
	WO 1997-EP4166	W	19970729
	US 1998-101210	A3	19981204

OTHER SOURCE(S): MARPAT 127:161997

GI



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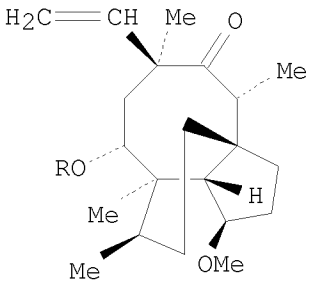


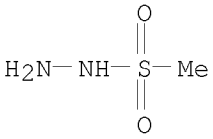
II

AB Derivs. of mutilin of formula [I; Y = (un)substituted carbamoyloxy; R1 = vinyl, Et] and their pharmaceutically acceptable salts, useful in the treatment of bacterial infections (no data), are prepared Thus, (3R)-epimutilin derivative II (R = H) was treated with Ph isocyanate in CH2Cl2 containing N,N-diisopropylethylamine at room temperature for 7 days to give II (R = PhNHCO), which in dioxane was treated with a saturated solution of ZnCl2 in concentrated HCl to give the title compound mutilin 14-phenylcarbamate.

IT 10393-86-9, Methanesulfonyl hydrazide
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of carbamoyloxymutilins as antibacterials)

RN 10393-86-9 CAPLUS

CN Methanesulfonic acid, hydrazide (CA INDEX NAME)



L14 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1993:142111 CAPLUS

DOCUMENT NUMBER: 118:142111

ORIGINAL REFERENCE NO.: 118:24332a

TITLE: Hydrazine group-containing inhibitors of nonenzymatic cross-linking

INVENTOR(S): Ulrich, Peter C.; Cerami, Anthony

PATENT ASSIGNEE(S): Rockefeller University, USA

SOURCE: U.S., 11 pp. Cont.-in-part of 4,983,604.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 33

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5140048	A	19920818	US 1990-605654	19901030
EP 322402	A2	19890628	EP 1989-102406	19850319
EP 322402	A3	19891025		
EP 322402	B1	19931124		
R: AT, BE, CH, DE, FR, GB, LI, LU, NL, SE				
AT 97741	T	19931215	AT 1989-102406	19850319
US 5126442	A	19920630	US 1991-638735	19910108
US 5254593	A	19931019	US 1991-807609	19911216

US 5221683	A	19930622	US 1992-822310	19920117
JP 05172813	A	19930713	JP 1992-51657	19920310
US 5356895	A	19941018	US 1992-889141	19920527
US 5243071	A	19930907	US 1992-890556	19920528
US 5262152	A	19931116	US 1992-890615	19920528
US 5399560	A	19950321	US 1992-956722	19921001
US 5272165	A	19931221	US 1992-998539	19921230
WO 9313775	A1	19930722	WO 1993-US386	19930115
W: AU, CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9335840	A	19930803	AU 1993-35840	19930115
US 5612332	A	19970318	US 1995-487059	19950607
US 5811075	A	19980922	US 1995-487398	19950607
US 5852009	A	19981222	US 1997-784861	19970116
US 6114323	A	20000905	US 1998-215612	19981217
US 20020115724	A1	20020822	US 2001-954514	20010917

PRIORITY APPLN. INFO.:

US 1984-590820	A2	19840319
US 1985-798032	A2	19851114
US 1987-119958	A2	19871113
US 1988-264930	A2	19881102
EP 1989-102406	A	19850319
US 1986-907747	B2	19860912
US 1987-91534	A3	19870903
US 1988-220504	B2	19880718
US 1989-453935	A3	19891220
US 1989-453958	B1	19891220
US 1990-481869	A2	19900220
US 1990-605654	A2	19901030
US 1990-606425	A3	19901031
US 1991-697212	A3	19910507
US 1991-697213	A3	19910507
US 1991-709487	B1	19910603
US 1991-805200	A2	19911210
US 1992-822310	A	19920117
US 1992-878837	B1	19920505
US 1992-889141	A3	19920527
US 1992-890556	A3	19920528
WO 1993-US386	A	19930115
US 1993-162840	B1	19931203
US 1994-274243	B2	19940713
US 1994-290680	B1	19940815
US 1995-487059	A2	19950607
US 1997-784861	A1	19970116
US 1998-215612	A1	19981217
US 2000-561541	A3	20000428

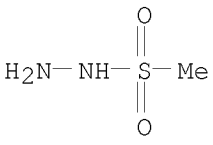
OTHER SOURCE(S): MARPAT 118:142111

AB Compns. and methods for inhibiting nonenzymic crosslinking of proteins are claimed. The compns. comprise RC(:O)NHNH2 (R=C2-10 alkyl containing an addnl. acid functional group), which can react with the carbonyl moiety of the early glycosylation product of target proteins formed by their initial glycosylation. The method comprises contacting the target protein with the composition The compns. can be used to prevent food spoilage and animal protein aging (no data). Many compds. were synthesized and tested for inhibition of glucose-mediated protein crosslinking in vitro as well as for lack of inhibition of diamine oxidase.

IT 10393-86-9, Methanesulfonic acid hydrazide
RL: BIOL (Biological study)
(nonenzymic protein glycosylation and crosslinking prevention with)

RN 10393-86-9 CAPLUS

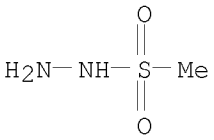
CN Methanesulfonic acid, hydrazide (CA INDEX NAME)



L14 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1990:204501 CAPLUS
DOCUMENT NUMBER: 112:204501
ORIGINAL REFERENCE NO.: 112:34459a,34462a
TITLE: Aminoguanidine derivatives for preventing staining of teeth caused by nonenzymic browning of proteins
INVENTOR(S): Cerami, Anthony; Yamin, Michael A.
PATENT ASSIGNEE(S): Rockefeller University, USA
SOURCE: Eur. Pat. Appl., 23 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 327919	A2	19890816	EP 1989-101577		19890130
EP 327919	B1	19930915			
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE					
CA 1332572	C	19941018	CA 1989-589143		19890125
AT 94379	T	19931015	AT 1989-101577		19890130
ES 2059576	T3	19941116	ES 1989-101577		19890130
JP 07037373	B	19950426	JP 1989-20680		19890130
PRIORITY APPLN. INFO.:			US 1988-149726	A	19880129
			US 1989-290938	A	19890104
			EP 1989-101577	A	19890130

OTHER SOURCE(S): MARPAT 112:204501
AB A method of inhibiting discoloration of teeth caused by the nonenzymic browning of proteins in the oral cavity comprises administration of an agent capable of reacting with the carbonyl moiety of the early glycosylation product formed by the initial glycosylation of the nonenzymic browning reaction. The agents are selected from the group consisting of aminoguanidine, β-hydrazinohistidine, lysine, and aminoguanidine derivs. A mixture containing bovine serum albumin, glucose, chlorhexidine, NaN3 and 100 mM aminoguanidine in a phosphate buffer (pH = 7.4) was incubated at 37° for 3 wk and bovine serum albumin was precipitated with saturated ammonium sulfate solution The fluorescence of nonenzymic browning product was 15.2 as compared to 59.2 for the control with no aminoguanidine. An oral rinse contained aminoguanidine 1.4, chlorhexidine gluconate 0.12, EtOH 11.6, Na saccharin 0.15. FE & C Blue Number 1 0.001, peppermint oil 0.5, glycerin 10.0, Tween-60 0.3, and water up to 100%.
IT 10393-86-9, Methanesulfonic acid hydrazide
RL: BIOL (Biological study)
(as tooth discoloration inhibitor for dentifrices)
RN 10393-86-9 CAPLUS
CN Methanesulfonic acid, hydrazide (CA INDEX NAME)

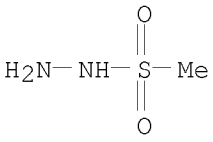


L14 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1990:151885 CAPLUS
DOCUMENT NUMBER: 112:151885
ORIGINAL REFERENCE NO.: 112:25479a,25482a
TITLE: Inhibitors of nonenzymic crosslinking of proteins (protein aging)
INVENTOR(S): Ulrich, Peter C.; Cerami, Anthony
PATENT ASSIGNEE(S): Rockefeller University, USA
SOURCE: Eur. Pat. Appl., 23 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 33
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 316852	A2	19890524	EP 1988-118973	19881114
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AU 8824929	A	19890525	AU 1988-24929	19881109
US 5126442	A	19920630	US 1991-638735	19910108
WO 9313775	A1	19930722	WO 1993-US386	19930115
W: AU, CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9335840	A	19930803	AU 1993-35840	19930115

PRIORITY APPLN. INFO.:		
US 1987-119958	A	19871113
US 1988-264930	A	19881102
US 1989-453935	A3	19891220
US 1992-822310	A	19920117
WO 1993-US386	A	19930115

OTHER SOURCE(S): MARPAT 112:151885
AB A composition an agent capable of inhibiting the formation of advanced glycosylation end products of target proteins, by reacting with the carbonyl moiety of the early glycosylation product of such target proteins formed by their initial glycosylation. Suitable agents contain an active N-containing group, such as a hydrazine group. Particular agents comprise aminoguanine derivs. Food spoilage and animal protein aging can be treated. A solution of Et hydrazinecarboximidothioate-HBr and 3-(4-morpholino)propylamine in EtOH was kept for 2 days and refluxed for 30 min, followed by the addition of iso-PrOH and HBr, to give N-[3-(4-morpholino)propyl]hydrazinecarboximidamide-2HBr (I). I (10 mM) inhibited the glucose-mediated crosslinking of bovine serum albumin by 41%.
IT 10393-86-9, Methanesulfonic acid hydrazide
RL: BIOL (Biological study)
(protein glycosylation-inhibiting agent)
RN 10393-86-9 CAPLUS
CN Methanesulfonic acid, hydrazide (CA INDEX NAME)



L14 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1989:595098 CAPLUS
DOCUMENT NUMBER: 111:195098
ORIGINAL REFERENCE NO.: 111:32438h,32439a
TITLE: Camphor- and 10-sulfonamidocamphor sulfonohydrazones and related compounds
AUTHOR(S): Cremlyn, Richard; Bartlett, Martin; Lloyd, Jane
CORPORATE SOURCE: Div. Chem. Sci., Hatfield Polytech., Hatfield/Hertfordshire, AL10 9AB, UK
SOURCE: Phosphorus and Sulfur and the Related Elements (1988), 40(1-2), 91-7
CODEN: PREEDF; ISSN: 0308-664X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 111:195098
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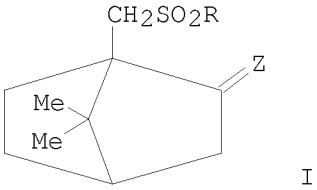
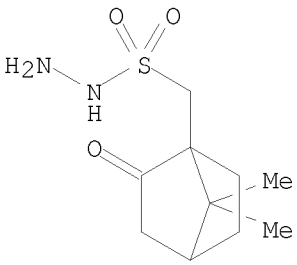


I

AB Camphor-10-sulfonyl chloride (I; R = Cl, Z = O) was converted into the hydrazide I (R = NHNH2, Z = O), the N-phenyl-I (R = NHNHPh, and N,N'-dimethylhydrazides I (R = NHNMe2 Z = O); the former was characterized as the hydrazones I (R = NHN:CR1R2, R1 = H; R2 = Ph, 4-MeC6H4, 4-MeOC6H4, 4-ClC6H4; R1 = Me4R2Ph) and the 3,5-dimethylpyrazole. Camphor-10-sulfonanilide I (X = NHPh, Z = O) and the morpholidate I (X = morpholino, Z = O) were condensed with NH2NH2·H2O, to give the hydrazones I (R = NHPh, morpholine, Z = NHNH2) converted into the azines I (R = NHPh, morpholino, Z = NN:CR1R2, R1 = R2 = Me, R1 = H, R = Ph, 4-MeOC6H4, 4-O2NC6H4). Camphorhydrazone was similarly prepared, together with the azines I [R = NHPh, morpholino, ZNN:CR1R2 R1 = H, R2 = 4-O2NC6H4, 4-MeC6H4, 4-Me2NC6H4, 3-HOC6H4, R1 = R2 = Me, R1R2 = (CH2)4]. The spectral data are briefly discussed together with the results of preliminary biol. screening.

IT 123286-39-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, bioactivity, and thermal cyclization or condensation of, with carbonyl compds.)

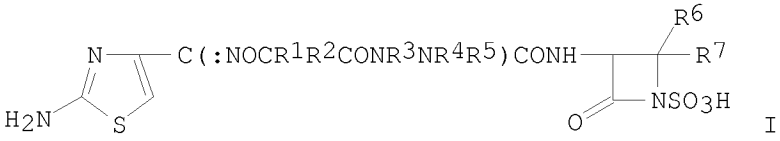
RN 123286-39-5 CAPLUS
CN Bicyclo[2.2.1]heptane-1-methanesulfonic acid, 7,7-dimethyl-2-oxo-, hydrazide (CA INDEX NAME)



L14 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1986:590776 CAPLUS
DOCUMENT NUMBER: 105:190776
ORIGINAL REFERENCE NO.: 105:30783a,30786a
TITLE: 3-[(2-Amino-4-thiazolyl)acetamido]-2-oxo-1-azetidinesulfonic acid derivatives and their use
INVENTOR(S): Treuner, Uwe Dietmar
PATENT ASSIGNEE(S): E. R. Squibb and Sons, Inc., USA
SOURCE: Eur. Pat. Appl., 52 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 177940	A2	19860416	EP 1985-112762	19851008
EP 177940	A3	19880330		
EP 177940	B1	19920506		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4610824	A	19860909	US 1984-658849	19841009
CA 1271749	A1	19900717	CA 1985-491947	19851001
JP 61091187	A	19860509	JP 1985-225923	19851008
JP 06047588	B	19940622		
AT 75743	T	19920515	AT 1985-112762	19851008
US 4680409	A	19870714	US 1985-812658	19851223
CA 1285954	C2	19910709	CA 1989-615542	19891026
JP 06329648	A	19941129	JP 1993-311610	19931213
JP 07055938	B	19950614		

PRIORITY APPLN. INFO.: US 1984-658849 A 19841009
CA 1985-491947 A 19851001
EP 1985-112762 A 19851008
OTHER SOURCE(S): CASREACT 105:190776; MARPAT 105:190776
GI



I

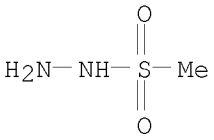
AB The title compds. I [R1, R2 = H, C1-4 alkyl, R1R2 with the C to which they are attached form a cycloalkyl; R3 = R4 = H, alkyl; R5 = H, alkyl, (un)substituted Ph, heterocyclyl, alkoxycarbonyl, etc.; R4R5 = CHY, Y = (un)substituted Ph; R6, R7 = H, alkyl, alkenyl, alkynyl, (un)substituted Ph, etc.] and their salts, useful against gram-neg. organisms (no data)

were prepared Thus, [3S-[3α(Z),4β]]-3-[[(2-amino-4-thiazolyl)-[(1-carboxy-1-methylethoxy)imino]acetyl]amino]-4-methyl-2-oxo-1-azetidinesulfonic acid, Bu3N, N-hydroxybenzotriazole, and dimethylaminopyridine in DMF were reacted with N,N-dicyclohexylcarbodiimide, followed by H2NNHCO2CMe3 to give [3S-[3α(Z),4β]]-I (R1-R4 = H, R5 = CO2CMe3, R6 = H, R7 = Me).

IT 10393-86-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with azetidinesulfonic acid derivative)

RN 10393-86-9 CAPLUS

CN Methanesulfonic acid, hydrazide (CA INDEX NAME)



L14 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1982:6623 CAPLUS

DOCUMENT NUMBER: 96:6623

ORIGINAL REFERENCE NO.: 96:1199a,1202a

TITLE: β-Sultones, III: The preparation of 1,2-oxathietane 2,2-dioxides (β-sultones) and their reactions with nucleophiles

AUTHOR(S): Hanefeld, Wolfgang; Kluck, Detlef

CORPORATE SOURCE: Inst. Pharm. Chem., Univ. Hamburg, Hamburg, 2000/13, Fed. Rep. Ger.

SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1981), 314(9), 799-810
CODEN: ARPMAS; ISSN: 0365-6233

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 96:6623

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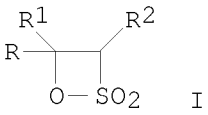

I

AB Oxathietane dioxides I (R = CBr3, R1 = H, R2 = Cl; R = R1 = CClF2, R2 = Cl; R = CCl3, R1 = CF3, R2 = H) were prepared by treating RR1CO with R2CH2SO2Cl. HOCRR1CHR2SO2NR3R4 (II, R = CCl3, CClF2, CBr3; R1 = H, CF3, CClF2; R2 = H, Cl, Br, Me; R3 = R4 = Me, CH2Ph; NR3R4 = morpholino, piperidino) were obtained by aminolysis of I. Some II were O-acetylated. I (R = CCl3, R1 = R2 = H) was converted to a variety of sulfonamides HOCH(CCl3)CH2SO2NR5R6 (NR5R6 = amino).

IT 80015-19-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 80015-19-6 CAPLUS

CN 1-Propanesulfonic acid, 3,3,3-trichloro-2-hydroxy-, compd. with 3,3,3-trichloro-2-hydroxy-1-propanesulfonic acid hydrazide (1:1) (CA

INDEX NAME)

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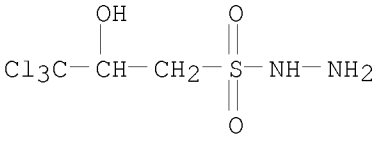

CM 2

CRN 14500-55-1
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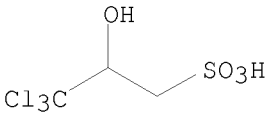
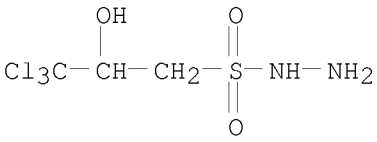


IT 19422-53-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with acetophenone)
RN 19422-53-8 CAPLUS
CN 1-Propanesulfonic acid, 3,3,3-trichloro-2-hydroxy-, hydrazide (CA INDEX NAME)



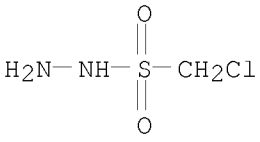
L14 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1975:15908 CAPLUS
DOCUMENT NUMBER: 82:15908
ORIGINAL REFERENCE NO.: 82:2541a,2544a
TITLE: Mechanism of carbinolamine formation
AUTHOR(S): Sayer, J. M.; Pinsky, B.; Schonbrunn, A.; Washtien, W.
CORPORATE SOURCE: Grad. Dep. Biochem., Brandeis Univ., Waltham, MA, USA
SOURCE: Journal of the American Chemical Society (1974), 96(26), 7998-8008
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A general mechanism is described for carbinolamine formation that is consistent with kinetic and structure-reactivity data for the reaction of amines with substituted benzaldehydes. According to this mechanism, the addition reaction that is observed at pH values below neutrality proceeds by two sep. and concurrent paths. These are (I) general acid catalysis of amine

attack on the carbonyl group in a more-or-less concerted manner and (II) a stepwise process involving the uncatalyzed formation of a zwitterionic intermediate T±, that is subsequently trapped by a kinetically significant proton transfer process involving acids or water. For weakly basic amines and/or aldehydes for which the value of Kad, the equilibrium constant for neutral carbinolamine formation, is small, the predominant path of hydronium ion catalyzed carbinolamine formation is the concerted path, I. This pathway is characterized by rate consts. that are relatively insensitive to polar substituents on the aldehyde and the amine. For more strongly basic amines or amines and aldehydes with larger values of Kad, the intermediate T± for the stepwise path, II, is stabilized, and this path is favored relative to the concerted process. Contributions of the stepwise path to the observed rate of carbinolamine formation are exptl. shown by (a) breaks in pH-rate profiles indicative of changes in the rate-determining step that cannot be accounted for by the transition from carbinolamine formation to dehydration and (b) strong sensitivity of the observed rate consts. to polar substituents on the amine and the aldehyde under conditions where the stepwise proton transfer processes involving acids or water are kinetically significant. The pH-independent reaction that is ordinarily observed with weakly basic amines at moderately acidic pH values corresponds to a rate determining water-mediated proton switch that converts T± to T0. With hydrazine derivs. possessing an acidic H in the 2 position, unusually fast rates are observed for the pH-independent process and are attributed to a facile intramol. proton donation from N-2 of the substituted hydrazine moiety to the alcoholate O atom.

IT 28059-26-9
RL: PRP (Properties)
(carbinolamine formation with benzaldehydes, kinetics of)

RN 28059-26-9 CAPLUS

CN Methanesulfonic acid, 1-chloro-, hydrazide (CA INDEX NAME)



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FULL ESTIMATED COST                                    80.14     306.01

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                    -9.84      -9.84

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NEWS 4	NOV 26	CHEMSAFE now available on STN Easy
NEWS 5	NOV 26	Two new SET commands increase convenience of STN searching
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NEWS 7	DEC 12	GBFULL now offers single source for full-text coverage of complete UK patent families
NEWS 8	DEC 17	Fifty-one pharmaceutical ingredients added to PS
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NEWS 12	FEB 02	GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS 13	FEB 06	Patent sequence location (PSL) data added to USGENE
NEWS 14	FEB 10	COMPENDEX reloaded and enhanced
NEWS 15	FEB 11	WTEXTILES reloaded and enhanced
NEWS 16	FEB 19	New patent-examiner citations in 300,000 CA/CAplus patent records provide insights into related prior art
NEWS 17	FEB 19	Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS 18	FEB 23	Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS 19	FEB 23	MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS 20	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS 21	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters

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AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

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specific topic.

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                                                         ENTRY   SESSION
FULL ESTIMATED COST   0.22   0.22

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DICTIONARY FILE UPDATES: 22 FEB 2009 HIGHEST RN 1110296-20-2

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experimental property data in the original document. For information
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http://www.cas.org/support/stngen/stndoc/properties.html

=> e sulfonhydrazide
E1   1   SULFONEURACIL/BI
E2   1   SULFONEX/BI
E3   2 --> SULFONHYDRAZIDE/BI
E4   5   SULFONI/BI
E5   1   SULFONIAZID/BI
E6   3   SULFONIAZIDE/BI
E7   392868   SULFONIC/BI
E8   2   SULFONICOTIN/BI
E9   2   SULFONICOTINATE/BI
E10   2   SULFONICOTINIC/BI
E11   1   SULFONID/BI
E12   1   SULFONIDAZOLE/BI

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L1   2 SULFONHYDRAZIDE/BI

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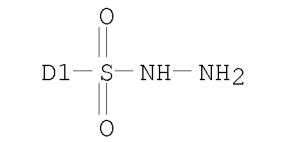
L1   ANSWER 1 OF 2 REGISTRY COPYRIGHT 2009 ACS on STN
RN   56803-51-1 REGISTRY
ED   Entered STN: 16 Nov 1984

CN Benzenesulfonic acid, methylenebis-, dihydrazide (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Methylenebis(benzenesulfonhydrazide)
MF C13 H16 N4 O4 S2
CI IDS, COM
LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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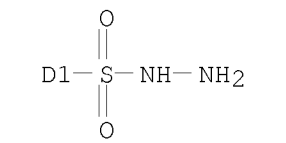
L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2009 ACS on STN
RN 56803-51-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Benzenesulfonic acid, methylenebis-, dihydrazide (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Methylenebis(benzenesulfonhydrazide)
MF C13 H16 N4 O4 S2
CI IDS, COM
LC STN Files: CA, CAPLUS



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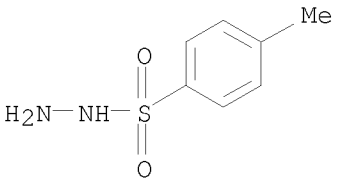
L1   ANSWER 2 OF 2  REGISTRY  COPYRIGHT 2009 ACS on STN
RN   1576-35-8  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Benzenesulfonic acid, 4-methyl-, hydrazide  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   p-Toluenesulfonic acid, hydrazide (6CI, 7CI, 8CI)
OTHER NAMES:
CN   (4-Methylphenylsulfonyl)hydrazine
CN   (4-Tolylsulfonyl)hydrazide
CN   (p-Tolylsulfonyl)hydrazine
CN   4-Methylbenzenesulfonic acid hydrazide
CN   4-Methylbenzenesulfonohydrazide
CN   4-Methylbenzenesulfonyl hydrazide
CN   4-Methylphenylsulfonyl hydrazide
CN   4-Toluenesulfonic acid hydrazide
CN   4-Toluenesulfonohydrazine
CN   Cellmic AH
CN   Cellmic H
CN   Celogen TSH
CN   Genitron PTS
CN   NSC 18715
CN   p-Methylbenzenesulfonic acid hydrazide
CN   p-Methylbenzenesulfonylhydrazine
CN   p-Methylphenylsulfonylhydrazine
CN   p-Toluenesulfonhydrazide
CN   p-Toluenesulfonic hydrazide
CN   p-Toluenesulfonohydrazide
CN   p-Toluenesulfonyl hydrazide
CN   p-Toluenesulfonylhydrazine
CN   p-Tolylsulfonyl hydrazide
CN   p-Tosyl hydrazide
CN   p-Tosylhydrazine
CN   Porofor TSH 75
CN   Toluene-4-sulfonohydrazide
CN   Toluene-4-sulfonyl hydrazide
CN   Toluene-4-sulphonyl hydrazide
CN   Tosylhydrazide
CN   Tosylhydrazine
CN   Unifor H
CN   Unifor NH 500
DR   344295-58-5
MF   C7 H10 N2 O2 S
CI   COM
LC   STN Files:   BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CBNB, CHEMCATS,
       CHEMINFORMRX, CHEMLIST, CSCHEM, CSNB, GMELIN*, IFICDB, IFIPAT, IFIUDB,
       MEDLINE, MSDS-OHS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2,
       USPATFULL, USPATOLD
         (*File contains numerically searchable property data)
     Other Sources:   DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
```



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1820 REFERENCES IN FILE CA (1907 TO DATE)
17 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1824 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.90	14.12

FILE 'CAPLUS' ENTERED AT 19:37:41 ON 23 FEB 2009

FILE COVERS 1907 - 23 Feb 2009 VOL 150 ISS 9
FILE LAST UPDATED: 22 Feb 2009 (20090222/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l1
L2 1825 L1

=> d scan

L2 1825 ANSWERS CAPLUS COPYRIGHT 2009 ACS on STN
CC 75-8 (Crystallography and Liquid Crystals)
Section cross-reference(s): 22, 25
TI N'-[1-(2,4-Difluorophenyl)ethylidene]-4-methylbenzenesulfonohydrazide
ST crystal structure difluorophenylethylidenemethylbenzenesulfonohydrazide; mol structure difluorophenylethylidenemethylbenzenesulfonohydrazide;

hydrogen bond difluorophenylethylidenemethylbenzenesulfonohydrazide
IT Hydrogen bond
(in [(difluorophenyl)ethylidene]methylbenzenesulfonohydrazide)
IT Crystal structure
Molecular structure
(of [(difluorophenyl)ethylidene]methylbenzenesulfonohydrazide)
IT 1576-35-8, 4-Methylbenzenesulfonohydrazide
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation reaction with (difluorophenyl)ethanone)
IT 364-83-0, 1-(2,4-Difluorophenyl)ethanone
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation reaction with methylbenzenesulfonohydrazide)
IT 1053180-56-5P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and crystal and mol. structure of)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L2 1825 ANSWERS CAPLUS COPYRIGHT 2009 ACS on STN
IC ICM C08L029-04
CC 38-3 (Plastics Fabrication and Uses)
TI Resin compounds with fragrance for noise-blocking pads of architectures comprising ethylene-vinyl acetate copolymer
ST fragrance sound insulator architecture EVA polymer; blowing agent EVA polymer sound insulator
IT Blowing agents
Construction materials
Deodorants
Perfumes
Sound insulators
(resin compds. containing ethylene-vinyl acetate copolymer with fragrance for noise-blocking pads for architectures)
IT Terpenes, uses
RL: MOA (Modifier or additive use); USES (Uses)
(resin compds. containing ethylene-vinyl acetate copolymer with fragrance for noise-blocking pads for architectures)
IT 1309-42-8, Magnesium hydroxide 1309-48-4, Magnesium oxide, uses
39366-43-3, MAgnesium-aluminum hydroxide
RL: MOA (Modifier or additive use); USES (Uses)
(resin compds. containing ethylene-vinyl acetate copolymer with fragrance for noise-blocking pads for architectures)
IT 80-51-3, p,p'-Oxybis(benzenesulfonyl hydrazide) 101-25-7, N,N'-Dinitrosopentamethylenetetramine 123-77-3, Azodicarbonamide 1576-35-8, p-Toluenesulfonylhydrazide 10396-10-8, p-Toluenesulfonyl semicarbazide
RL: NUU (Other use, unclassified); USES (Uses)
(resin compds. containing ethylene-vinyl acetate copolymer with fragrance for noise-blocking pads for architectures)
IT 24937-78-8, Ethylene-vinyl acetate copolymer
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(resin compds. containing ethylene-vinyl acetate copolymer with fragrance for noise-blocking pads for architectures)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L2 1825 ANSWERS CAPLUS COPYRIGHT 2009 ACS on STN
IC ICM C07D401-04
ICS C07D213-84; A61K031-4439; A61P025-04
CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1, 63
TI Fluoro-, chloro- and cyano-pyridin-2-yl-tetrazoles as ligands of the

metabotropic glutamate receptor 5
ST pyridinyl tetrazole prepn metabotropic glutamate receptor 5 modulator
IT Pain
(acute, treatment of; preparation of phenyl(pyridinyl)tetrazoles as ligands of the metabotropic glutamate receptor 5)
IT Pain
(chronic, treatment of; preparation of phenyl(pyridinyl)tetrazoles as ligands of the metabotropic glutamate receptor 5)
IT Glutamate receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(metabotropic, mGluR5, modulation of; preparation of phenyl(pyridinyl)tetrazoles as ligands of the metabotropic glutamate receptor 5)
IT Analgesics
Gastrointestinal agents
Human
(preparation of phenyl(pyridinyl)tetrazoles as ligands of the metabotropic glutamate receptor 5)
IT Digestive tract, disease
Mental and behavioral disorders
Nervous system, disease
(treatment of; preparation of phenyl(pyridinyl)tetrazoles as ligands of the metabotropic glutamate receptor 5)
IT 507268-74-8P, 3-[5-(5-Bromopyridin-2-yl)-2H-tetrazol-2-yl]-5-fluorobenzonitrile
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(drug candidate; preparation of phenyl(pyridinyl)tetrazoles as ligands of the metabotropic glutamate receptor 5)
IT 507269-27-4P, 3-Fluoro-5-(5-pyridin-2-yl-2H-tetrazol-2-yl)benzonitrile 859509-04-9P, 3-Fluoro-5-[5-(5-fluoropyridin-2-yl)-2H-tetrazol-2-yl]benzonitrile 859509-06-1P, 3-[5-(5-Chloropyridin-2-yl)-2H-tetrazol-2-yl]-5-fluorobenzonitrile 859509-08-3P, 6-[2-(3-Cyano-5-fluorophenyl)-2H-tetrazol-5-yl]nicotinonitrile 859509-09-4P, 3-[5-(5-Fluoropyridin-2-yl)-2H-tetrazol-2-yl]-5-(methoxymethyl)benzonitrile 859509-14-1P, 3-Fluoro-5-[2-(5-fluoropyridin-2-yl)-2H-tetrazol-5-yl]benzonitrile 859509-15-2P, 6-[5-(3-Cyano-5-fluorophenyl)-2H-tetrazol-2-yl]nicotinonitrile 859509-16-3P, 3-[2-(5-Chloropyridin-2-yl)-2H-tetrazol-5-yl]-5-fluorobenzonitrile 859509-17-4P, 5-Fluoro-2-[2-(3-fluoro-5-methoxyphenyl)-2H-tetrazol-5-yl]pyridine 859509-18-5P, 3-[5-(5-Fluoropyridin-2-yl)-2H-tetrazol-2-yl]-5-methoxybenzonitrile 859509-19-6P, 3-[5-(5-Fluoropyridin-2-yl)-2H-tetrazol-2-yl]-5-(trifluoromethoxy)benzonitrile 859509-20-9P, 3-(Difluoromethoxy)-5-[5-(5-fluoropyridin-2-yl)-2H-tetrazol-2-yl]benzonitrile 859509-21-0P, 3-[5-(5-Fluoropyridin-2-yl)-2H-tetrazol-2-yl]-5-(2-methoxyethoxy)benzonitrile 859509-22-1P, 3-(Ethylamino)-5-[5-(5-fluoropyridin-2-yl)-2H-tetrazol-2-yl]benzonitrile 859509-23-2P, 3-Amino-5-[5-(5-fluoropyridin-2-yl)-2H-tetrazol-2-yl]benzonitrile 859509-24-3P, 3-[5-(5-Fluoropyridin-2-yl)-2H-tetrazol-2-yl]-5-iodobenzonitrile
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of phenyl(pyridinyl)tetrazoles as ligands of the metabotropic glutamate receptor 5)
IT 31181-88-1P, 5-Fluoropyridine-2-carboxaldehyde 42268-88-2P, 5-Bromomethylisophthalic acid dimethyl ester 155940-60-6P, Dimethyl 5-methoxymethylisophthalate 210992-28-2P, 3-Amino-5-fluorobenzonitrile 327056-62-2P, 5-Fluoropyridine-2-carbonitrile 453565-82-7P,

3-Cyano-5-methoxymethylbenzoic acid 453565-84-9P,
3-Cyano-5-methoxymethylbenzoic acid methyl ester 859509-05-0P
859509-07-2P 859509-10-7P, 3-Amino-5-methoxymethylbenzonitrile
859509-11-8P, (3-Cyano-5-methoxymethylphenyl)carbamic acid tert-butyl
ester 859509-12-9P, 5-Methoxymethylisophthalamic acid methyl ester
859509-13-0P, 5-Methoxymethylisophthalic acid monomethyl ester
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(intermediate; preparation of phenyl(pyridinyl)tetrazoles as ligands of the
metabotropic glutamate receptor 5)
IT 1576-35-8, p-Toluenesulfonyl hydrazide 31181-89-2,
5-Chloropyridine-2-carboxaldehyde 55338-73-3,
5-Aminopyridine-2-carbonitrile 109862-53-5, Dimethyl
5-hydroxymethylisophthalate 110882-60-5, 3-Fluoro-5-nitrobenzonitrile
RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; preparation of phenyl(pyridinyl)tetrazoles as ligands of
the metabotropic glutamate receptor 5)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l1/anst
1825 L1
1253464 ANST/RL
L3 11 L1/ANST
(L1 (L) ANST/RL)

=> s l1/arg
1825 L1
206526 ARG/RL
L4 2 L1/ARG
(L1 (L) ARG/RL)

=> d l4 4 ibib abs
2 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):2

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:932411 CAPLUS
DOCUMENT NUMBER: 138:147880
TITLE: Stable isotope dilution high-performance liquid chromatography-electrospray ionization mass spectrometry method for endogenous 2- and 4-hydroxyestrones in human urine
AUTHOR(S): Xu, Xia; Ziegler, Regina G.; Waterhouse, David J.; Saavedra, Joseph E.; Keefer, Larry K.
CORPORATE SOURCE: Epidemiology and Biostatistics Program, Division of Cancer Epidemiology and Genetics, National Cancer Institute, Bethesda, MD, 20892, USA
SOURCE: Journal of Chromatography, B: Analytical Technologies in the Biomedical and Life Sciences (2002), 780(2), 315-330
CODEN: JCBAAI; ISSN: 1570-0232
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A sensitive, precise and accurate stable isotope dilution HPLC-electrospray ionization mass spectrometry method has been developed for measuring endogenous 2- and 4-hydroxyestrones, the main catechol estrogens in human urine. Compared to the published methods using gas chromatog.-mass spectrometry, this approach simplifies sample preparation and increases the throughput of anal. The unique part of the authors' method is the use of

a simple and rapid derivatization step that forms a hydrazone at the C-17 carbonyl group of catechol estrogens. This derivatization step has greatly enhanced method sensitivity as well as HPLC separability of 2- and 4-hydroxyestrones. Standard curves were linear over a 100-fold calibration range with correlation coeffs. for the linear regression curves typically greater than 0.996. The lower limit of quantitation for each catechol estrogen is 1 ng per 10-mL urine sample, with an accuracy of 97-99% and overall precision, including the hydrolysis, extraction and derivatization steps, of 1-3% for samples prepared concurrently and 2-11% for samples prepared in several batches. This method is adequate for measuring the low endogenous levels of catechol estrogens in urine from postmenopausal women.

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> 1
1 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> d l4 1 ibib abs

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:690866 CAPLUS
DOCUMENT NUMBER: 141:307724
TITLE: Measuring seven endogenous ketolic estrogens simultaneously in human urine by high-performance liquid chromatography-mass spectrometry
AUTHOR(S): Xu, Xia; Keefer, Larry K.; Waterhouse, David J.; Saavedra, Joseph E.; Veenstra, Timothy D.; Ziegler, Regina G.
CORPORATE SOURCE: Laboratory of Proteomics and Analytical Technologies, SAIC-Frederick Inc., National Cancer Institute at Frederick, Frederick, MD, 21702, USA
SOURCE: Analytical Chemistry (2004), 76(19), 5829-5836
CODEN: ANCHAM; ISSN: 0003-2700
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A rapid, sensitive, and specific high-performance liquid chromatog.-electrospray ionization-multistage mass spectrometry (MS) method for measuring endogenous ketolic estrogen metabolites in human urine has been developed. The method requires a single hydrolysis/extraction/derivatization step and only 2.5 mL of urine, yet is able to simultaneously quantify estrone and its 2-methoxy and 2-, 4-, and 16α-hydroxy derivs., 16-ketoestradiol, and 2-hydroxyestrone-3-Me ether metabolites. The combination of a simple hydrazone derivatization step with multistage MS greatly enhances the sensitivity and specificity of the anal. of endogenous estrogen within human urine. Standard curves are linear over a 100-fold concentration range with linear regression correlation coeffs. typically greater than 0.99. The lower limit of quantitation for each ketolic estrogen is 0.2 ng/2.5-mL urine sample (10 pg on column), with an accuracy of 93-103% and an overall precision, including the hydrolysis, extraction, and derivatization steps, of 1-13% relative standard derivation (RSD) for samples prepared concurrently and 8-16% RSD for samples prepared in sep. batches. This method also allows for the identification of 2-hydroxyestrone-3-Me ether in urine obtained from both pre- and postmenopausal women. This potentially protective estrogen metabolite has been previously reported only in the urine of pregnant women. Since individual patterns of estrogen metabolism may influence the risk of breast

cancer, accurate and specific measurement of estrogen metabolites in biol. matrixes will facilitate future research on breast cancer prevention, screening, and treatment.

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	14.98	29.10

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.64	-1.64

STN INTERNATIONAL LOGOFF AT 19:43:00 ON 23 FEB 2009